

Appl. No. 10/057,652  
Reply to Office Action of February 9, 2005

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. **(Previously Presented)** An ink jet recording medium comprising a substrate and a plurality of ink absorption layers provided thereon, wherein an upper layer of the ink absorption layers contains inorganic pigment, a binder and thermoplastic particles, and the content by weight of the inorganic pigment being greater than that of the thermoplastic particles.

2. **(Withdrawn)** The ink jet recording medium of claim 1, wherein the medium is subjected to image recording employing pigment ink.

3. **(Withdrawn)** The ink jet recording medium of claim 1, wherein the medium is subjected to image recording and then subjected to heating treatment.

Appl. No. 10/057,652

Reply to Office Action of February 9, 2005

4. (Original) The ink jet recording medium of claim 1, wherein at least one of the plural ink absorption layers except for the upper layer contains inorganic pigment.

5. (Original) The ink jet recording medium of claim 1, wherein the inorganic pigment is silica.

6. (Original) The ink jet recording medium of claim 1, wherein the inorganic pigment is alumina.

7. (Original) The ink jet recording medium of claim 1, wherein the content ratio by weight of thermoplastic particles/inorganic pigment is from 45/55 to 10/90.

8. (Original) The ink jet recording medium of claim 1, wherein the solid content of the thermoplastic particles contained in the upper layer is from 0.5 to 15 g/m<sup>2</sup> of the medium.

Appl. No. 10/057,652

Reply to Office Action of February 9, 2005

9. **(Original)** The ink jet recording medium of claim 1, wherein the solid content of the upper layer is from 2 to 50 g/m<sup>2</sup> of the medium.

10. **(Original)** The ink jet recording medium of claim 1, wherein the upper layer is an uppermost layer.

11. **(Original)** The ink jet recording medium of claim 4, wherein the inorganic pigment is silica.

12. **(Original)** The ink jet recording medium of claim 4, wherein the inorganic pigment is alumina.

13. **(Original)** The ink jet recording medium of claim 4, wherein at least one of the plural ink absorption layers except for the upper layer contains inorganic pigment in an amount of not less than 50% by weight.

14. **(Previously Presented)** An ink jet recording medium comprising a substrate and provided thereon, an upper layer

Appl. No. 10/057,652  
Reply to Office Action of February 9, 2005

containing inorganic pigment in an amount of 30 to 70% by weight, a binder and thermoplastic particles, the upper layer being a single layer, wherein the content ratio by weight of inorganic pigment/thermoplastic particles is from 3/7 to less than 7/3.

**15. (Withdrawn)** The ink jet recording medium of claim 14, wherein the medium is subjected to image recording employing pigment ink.

**16. (Withdrawn)** The ink jet recording medium of claim 14, wherein the medium is subjected to image recording and then subjected to heating treatment.

**17. (Previously Presented)** An ink jet recording medium comprising a substrate and a plurality of ink absorption layers provided thereon, wherein an upper layer of the ink absorption layers contains inorganic pigment in an amount of 30 to 70% by weight, a binder and thermoplastic particles, and wherein the content ratio by weight of inorganic pigment/thermoplastic particles is from 3/7 to less than 7/3 by weight.

Appl. No. 10/057,652  
Reply to Office Action of February 9, 2005

**18. (Withdrawn)** The ink jet recording medium of claim 17, wherein the medium is subjected to image recording employing pigment ink.

**19. (Withdrawn)** The ink jet recording medium of claim 17, wherein the medium is subjected to image recording and then subjected to heating treatment.

**20. (Withdrawn)** A method of manufacturing an ink jet recording medium comprising a substrate and provided thereon, plural ink absorption layers including an upper layer containing inorganic pigment and thermoplastic particles and a layer adjoining the upper layer, the method comprises the step of simultaneously coating the upper layer and the layer adjoining the upper layer on the substrate.

**21. (Withdrawn)** The method of claim 20, wherein the upper layer contains inorganic pigment and thermoplastic particles, the content by weight of the inorganic pigment being greater than the content of the thermoplastic particles.

Appl. No. 10/057,652  
Reply to Office Action of February 9, 2005

**22. (Withdrawn)** The method of claim 20, wherein all of the plural ink absorption layers are simultaneously multi-layer coated.

**Claims 23-26 (Canceled).**

**27. (Previously Presented)** An ink jet recording medium of claim 1, wherein the substrate has a base paper laminated with polyethylene film on both sides.

**28. (Previously Presented)** An ink jet recording medium of claim 1, wherein the inorganic pigment is a gas phase method silica.

**29. (Previously Presented)** An ink jet recording medium of claim 1, wherein an average primary particle size of the inorganic pigment is from 4 to 50 nm.

Appl. No. 10/057,652  
Reply to Office Action of February 9, 2005

**30. (Previously Presented)** An ink jet recording medium of claim 1, wherein an average particle size of the thermoplastic particles is from 0.1 to 5  $\mu\text{m}$ .

**31. (Previously Presented)** An ink jet recording medium of claim 1, wherein a glass transition point of the thermoplastic particles is from 50 to 150°C.

**32. (Previously Presented)** An ink jet recording medium of claim 1, wherein a solid content of the thermoplastic particles is from 1 to 7 g/m<sup>2</sup>.

**33. (New)** An ink jet recording medium of claim 31, wherein a glass transition point of the thermoplastic particles is 78 to 150°C.

**34. (New)** An ink jet recording medium of claim 1, wherein a residual monomer content in the thermoplastic particles is not more than 1% by weight.

**35. (New)** An ink jet recording medium of claim 1, wherein the binder is a polyvinyl alcohol.